

StorEdge® Three Phase Inverter

SE5K-RWS / SE7K-RWS / SE8K-RWS / SE10K-RWS



STOREDGE®

Ideal solution for three phase installations with battery storage

- Simple installation with single inverter for managing both PV production and battery storage
- Designed to eliminate high voltage during installation, maintenance, or firefighting for enhanced safety
- More energy using DC-coupled solution architecture that stores PV power directly to the battery without AC conversion losses
- Built-in module-level monitoring and full visibility of battery status, PV production, and self-consumption data
- Quick and easy inverter commissioning directly from a smartphone using SolarEdge SetApp
- Allows connection of low voltage 48V batteries from multiple battery vendors to provide greater flexibility

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Applicable to inverters with part number		SEXK-XXS48XXXX			
	SE5K-RWS	SE7K-RWS	SE8K-RWS	SE10K-RWS	Units
OUTPUT					
Rated AC Power Output	5000	7000	8000	10,000	VA
Maximum AC Power Output	5000	7000	8000	10,000	VA
AC Output Voltage – Line to Line / Line to Neutral (Nominal)	380/220; 400/230				Vac
AC Output Voltage – Line to Neutral Range	184 – 264.5				Vac
AC Frequency	50/60 ± 5				Hz
Maximum Continuous Output Current (per Phase)	8	11.5	13	16	A
Residual Current Detector / Residual Current Step Detector	300 / 30				mA
Grids Supported – Three Phase	3 / N / PE (WYE with Neutral)				
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes				
INPUT PV					
Maximum DC Power (Module STC)	6750	9450	10,800	13,500	W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage	900				Vdc
Nominal DC Input Voltage	750				Vdc
Maximum Input Current	8.5	12	13.5	16.5	Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	700kΩ Sensitivity				
Maximum Inverter Efficiency	98				%
European Weighted Efficiency	97.3	97.4	97.6		%
INPUT BATTERY					
Supported Battery Types ⁽¹⁾	SolarEdge Home Battery 48V BAT-05K48M0B-02 LG Chem RESU3.3, RESU6.5, RESU10, RESU12, RESU13 ⁽²⁾ LG enblock C6.5, C10, C12 BYD Battery-Box LV 3.5, 7.0, 10.5, 14.0 BYD Battery-Box Premium LVS 4.0, 8.0, 12.0, 16.0, 20.0, 24.0				
Number of Batteries per Inverter	1				
Maximum DC Power	5000				W
Input Voltage Range	40 – 62				Vdc
Maximum Continuous Input Current	130				Adc
Peak Battery to Grid Discharge Efficiency	96.1				%
Battery Communication	CAN				
ADDITIONAL FEATURES					
Supported Communication Interfaces	2 x RS485; Ethernet; ZigBee communications for Smart Energy ⁽³⁾ ; Wi-Fi ⁽⁴⁾ ; Built-in cellular (optional)				
STANDARD COMPLIANCE					
Safety	IEC 62109				
Grid Connection Standards ⁽⁵⁾	VDE 0126-1-1; VDE-AR-N-4105; G98 / G99				
Emissions	IEC 61000-6-2; IEC 61000-6-3; IEC 61000-3-11; IEC 61000-3-12				
RoHS	Yes				
INSTALLATION SPECIFICATIONS					
AC Output – Cable Gland Diameter	15 – 21				mm
Battery DC – Cable Gland Diameter	2 x 8 – 11				mm
PV DC Input	2 x MC4 pair				
Dimensions (H x W x D)	853 x 316 x 193				mm
Weight	37				kg
Operating Temperature Range	-40 to +60				°C
Cooling	Internal and external fans				
Noise	< 50				dBA
Protection Rating	IP65 – outdoor and indoor				
Mounting	Brackets provided				

(1) For supported battery models, refer to the [StorEdge Three Phase Inverter – System Configurations](#) application note.

(2) When connecting two batteries together with a RESU Plus box, any combination of LG RESU 3.3, 6.5, 10 and 12 is supported. RESU 13 can only be connected to another RESU 13.

(3) For more information refer to the [ZigBee Plugin for Inverters with SetApp Configuration](#) datasheet.

(4) Wi-Fi connectivity requires an external antenna. For more information refer to the [Antenna for Wi-Fi and ZigBee Wireless Communications](#) datasheet.

(5) For all standards, see the Certifications section in the [Knowledge Center](#).